

When using Digital Watchdog MegaPix cameras Dlink recommends gigabit web smart switches over unmanaged switches across the board, based on CPU and PoE management capabilities. Keep in mind that a web smart switch can be plug n play, but they also come with some key advantages over an unmanaged, like a user friendly browser-based Graphical User Interface (GUI) where you can conveniently manage key feature sets like POE Management, Bandwidth, QoS, Power Cycling and Cable Diagnostics from a web browser.

Digital Watchdog's top 5 camera table

DW Camera	PoE Class	Watts	6 - 7 Cameras	16 Cameras	23 Cameras
DWC-MF21M4TIR	Class 2	4.5 Watts	DGS-1100-08P (60 Watt Budget)	DGS-1210-28P (193 Watt Budget)	DGS-1210-28P (193 Watts Budget)
DWC-MV421TIR	Class 3	8.5 Watts	DGS-1100-08P (60 Watt Budget)	DGS-1210-28P (193 Watt Budget)	DGS-1210-28P (193 Watt Budget)
DWC-MB421TIR650	Class 3	14 Watts	DGS-1100-24P (100 Watt Budget)	DGS-1210-28P (193 Watt Budget)	DGS-1500-28P (370 Watts Budget)
DWC-MPTZ5X	Class 3	8 Watts	DGS-1100-08P (60 Watt Budget)	DGS-1210-28P (193 Watt Budget)	DGS-1210-28P (193 Watt Budget)
DWC-PB2M4TIR	Class 4	19 Watts	DGS-1100-24P (100 Watt Budget)	DGS-1500-28P (370 Watts Budget)	DGS-1500-28P (370 Watts Budget)

***If you mix and match cameras, please refer to spec's on page 2**

Determine the level requirements



- Class 1 – Max out at 4 Watts
- Class 2 – Max out at 7 Watts
- Class 3 – Max out at 15.4 Watts
- Class 4 – Max out at 30 Watts
 - Common when dealing with Outdoor PTZ Domes

802.11af

802.11at

- Always look at the max, for camera's power requirements vary constantly! Example would be a camera listed as a Class 3, but is spec'ed that max consumption is 9.3 Watts, not 15.4 Watts.



DGS-1100-08P



DGS-1100-24P



DES-1018MP



DGS-1210-28P



DGS-1500-28P

Dlink's switch recommendation table

Camera Counts (4-7):			
Part Number	Description	Note	Total POE budget
DES-1008PA	8-Port 10/100 Unmanaged Desktop Switch, w/ only 4 ports of PoE	Only 4 Ports have POE	52W
DGS-1008P	8-Port 10/100/1000 Unmanaged Desktop Switch, w/ only 4 ports of PoE	Only 4 Ports have POE	52W
DGS-1100-08P	EasySmart 8-Port Gigabit PoE Switch	All 8 ports can do up to 15Watts, but don't go over the budget!	64W
DES-1008P+	8-Port 10/100 Unmanaged Desktop/Rackmount PoE+ Switch	All 8 ports can do up to 30Watts, but don't go over the budget!	140W
DGS-1210-10P	Web Smart 8-Port Gigabit PoE Switch, 2 SFP Ports	All 8 ports can do up to 15Watts, but don't go over the budget!	78W
Camera Counts 8-16:			
Part Number	Description	Note	Total POE budget
DGS-1100-24P	Easy Smart 12- Port Gigabit PoE Switch, Desktop or Rackmount, and 12 non PoE Gig ports	12 PoE ports can do PoE+, but don't go over the budget!	100W
DES-1018MP	16-Port 10/100 Unmanaged Desktop/Rackmount PoE Switch with 2 SFP Combo Ports	All 16 ports can do 15Watts, but no PoE+	246.4W
DES-1210-28P	WebSmart 24-Port PoE Fast Ethernet Switch, including 2 Gigabit BASE-T and 2 Gigabit Combo BASE-T/SFP	24 ports PoE, and Ports 1-4 are PoE+, but don't go over the budget!	193W
DGS-1210-28P	Web Smart 24-Port Gigabit PoE Switch with 4 SFP Slots	24 ports PoE, and Ports 1-4 are PoE+, but don't go over the budget!	193W
Camera Counts 16-24			
Part Number	Description	Note	Total POE budget
DES-1210-28P	WebSmart 24-Port PoE Fast Ethernet Switch, including 2 Gigabit BASE-T and 2 Gigabit Combo BASE-T/SFP	24 ports PoE, and Ports 1-4 are PoE+, but don't go over the budget!	193W
DGS-1210-28P	Web Smart 24-Port Gigabit PoE Switch with 4 SFP Slots	24 ports PoE, and Ports 1-4 are PoE+, but don't go over the budget!	193W
DGS-1500-28P	SmartPro 24-Port Gigabit PoE+ Switch with 4 SFP Slots	Full power switch. All 24 Ports can do PoE+, but don't go over the budget. If more budget is needed, add DPS- 700 power supply	370W
DGS-1510-28P	Web Smart 24-Port Gigabit PoE Switch with 2 SFP Slots and 2 Slots of 10Gbe SFP+	All 24 ports can do up to 30Watts, but don't go over the budget!	193W

Key Contact info:

Sofia Cho (Distribution Sales Manager)
 (281) 772-3046
Sofia.Cho@Dlink.com
 Sales: 1-800-326-1688

Ernest Berardi (Director of Distribution Sales)
 (315) 715-1167
Ernest.Berardi@Dlink.com
 Project Reg: Dealreg@Dlink.com